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EPIPHYLLUMS

And Hybrids

TITLED BY SOME

"ORCHID CACTUS"

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ZYGOCACTUS — RHIPSALIS

AND OTHER MISCELLANEOUS ITEMS



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GERTRUDE W. BEAHM

SHERMAN E. BEAHM

EPIPHYLLUM — PHYLLOCACTUS — PHYLLOCEREUS

Flowering season—April, May and June

In order to eliminate any possible confusion arising from the use of the name "Orchid Cactus" for Epiphyllum hybrids, we offer the following explanation:

The name "Orchid Cactus" has only been in use for the past few years. It was started by a commercial dealer for its obvious "trade-pulling" power. This has caused and is causing endless trouble in the minds of the uninitiated since the EPIPHYLLUMS bear no relationship to the ORCHIDS beyond the fact that both have exquisite flowers and epiphytic traits.

Since the publication of "Cactaceae" by Britton & Rose in 1923, the name Epiphyllum has come into general use in the United States replacing the term Phyllocactus which has been in use in Europe and other parts of the world for well over a hundred years.

The term Phyllocereus refers to a definite intergeneric hybrid, an Epiphyllum crossed with Heliocereus.

Word descriptions seem so inadequate in describing these magnificent flowers, that we have assembled a group of kodachrome slides and a small viewer to loan to individuals or clubs. Please write us for particulars.

SYMBOLS

Bhm. means Beahm
Stl. means Steele
CP. means Cactus Pete
Cldg. means Coolidge
Kado means Kado
Sh. means Sherfy

Ru. means Russell
Weg. means Wegener
Wm. means Williams
TMM. means T. M. Monmonier
RWP. means R. W. Poindexter

Single CAPITAL letters indicate TYPE



TYPES OF BLOSSOMS

There are several distinct forms or shapes of these flowers. This explanation is not concerned with the ACTUAL SIZES but is an attempt to define SHAPES. The different types or forms can often be found in several sizes of flowers ranging from so-called small, through medium to extra large. We are trying to simplify descriptions by setting up six general classes or types, as follows:

TYPE A

Flowers are very wide open. They might be termed saucer-like. Quite often they are very large and not too compact. The sepals stand out or a few may turn back. The petals and sepals often number less than 25. Examples: Gloria, Amber Queen, Conway Giant, Adonis, Jenkinsonii, Sun Goddess, Wanda.

TYPE B

Flowers are quite compact. The sepals and petals hold together closely and overlap well, giving a full effect. These flowers are wide open but not flat with numerous sepals and petals. They are best represented by the *Phyllocereus* and often will have a slight spine on ovary and plant. Examples: Peacocki, Bohemienne, Dante, La France, *Heliocereus Speciosus*.

TYPE C

Flowers are all sizes. The forward extending petals being well separated from the outstanding sepals. A few sepals may turn back. The petals may flare trumpet-like or the tips may curve inward, forming a cup. Examples: Deutsche Kaiserin, Padre, Otto Siepke, Magnolia, Marie Van Hoorde, Roseus Superbus, Scheherazade, Rosetta.

TYPE D

Flowers have a certain similarity to Type C in that the sepals and petals are well separated from each other but the sepals are usually quite narrow and recurved, while the petals extend forward well parted. Examples: CeKa, Pink Pearl, Jules Schlumberger, Symphony, Montezuma.

TYPE E

Flowers are represented by several of the true species. The flowers are flat or wheel-shaped; sepals and petals often long and slender. Sometimes sepals stand out like spokes and the petals may be shorter and not quite flat. Examples: *Strictum*, *Stenopetalum*, Friedrich Werner Beul, Sunburst, Cartwheel.

TYPE F

Flowers are unique or hard to determine varieties. Examples: Pride of Bell, Ben's Laura.

Many flowers have characteristics of more than one type. This might be represented by a TYPE LETTER and the plus or minus sign as needed.



COLOR GROUPINGS

We have set up the following groups to help classify these flowers as to color. This is difficult because of the wide range of color combinations. Some flowers have more than one outstanding color. Nearly all of them contain a small amount of contrasting tint or shading of self-color and therefore could be listed under two groups. Distinction between tints and shades is a matter of personal understanding. Even the flowers themselves are of deeper tones at certain stages. We use the Horticultural Colour Chart issued by the British Colour Council.

GROUP I

WHITES, CREAMS, AND SOME WITH YELLOW.
SEPALS MAY BE GREEN, ROSE, TAN, OR YELLOW

- ALBINO** Stl. Small to medium, pure white trumpet 16 sepals and petals, sepals pinkish toned. \$1.00.
- AMARILLO** Stl. Early flowering with greenish-white broad sepals and wavy broad white petals. \$1.00.
- BABY DOLL** Bhm. Small flower, wide blunt petals, heavy rose-pink sepals. Short tube. \$1.50.
- BALLET RUSSE** Cldg. Rather small, pure white chiffon. Canary yellow buds and sepals. \$1.00.
- BEN'S LAURA** 1946. Very numerous chiffon-like petals, distinctly pearly clear to throat. Flower very flat open to recurving, inner petals banked high. Growth glaucous, triangular, slight spine. Very late, a must in all collections. \$3.00.
- CHAMPAGNE** Stl. (Type C.) Inner petals narrow and almost always yellow; at least heavily tipped. Not wide opening. Sepals tannish yellow. \$2.00.
- CITRINE** Stl. (Type C.) Large full petaled, open cup. Lemon yellow to white center. \$1.00.
- DEUTSCHLAND** Kn. 95. Its chief merit is its intense yellow varying with cultural conditions. \$1.50.
- EMERALD ISLE** Bhm. 1949. Sepals yellow-green cast, petals and filaments distinct green-white. \$1.00.
- GRETN A GREEN** Bhm. 1950. Very large greenish-white with few smooth strap-like narrow semi-pointed sepals and petals. Flat opening with very short ovary and tube. Distinctive. \$2.00.
- HALO** Stl. Giant yellow and white, broad petals, wide open cup. Choice. \$1.50.
- HELIANTHUS** Stl. Very yellow-brown buds opening to a many petaled yellow flower with cream-white center. Inner petals tipped in yellow. Forward cup opening. Fine. \$1.50.
- ICED GLORY** Bhm. 1950. Lively white with back sepals tan to yellow tips. Good size and texture. \$1.00.
- KATY-DID** Stl. Medium flower with splendid opening and carriage. Light primrose yellow. \$1.50.
- MADONNA** Stl. (Type A.) Broad, well rounded wide opening petals, slightly ruffled. Sepals light canary yellow recurving. Exquisite. Early. \$1.00.
- MILKY WAY** Stl. Medium sized late white flower with very rumpled inner petals. Sepals rose-tan and yellow. \$1.00.
- MOONLIGHT** Stl. Extra large and fine—not to be confused with MOONRISE. (Type D.) Outer sepals bronze to light lemon yellow, flaring trumpet. \$1.00.
- MOONLOVE** Bhm. 1951. Forward wide open, crispy firm texture, cream-white. Very numerous well parted petals and amber yellow sepals. Large flowers. \$1.50.

POLAR BEAR Stl. (Type A.) Large white with light lemon tipped petals well separated. Sepals smooth, gracefully recurved, light lemon yellow. \$1.00.

REGINA DEL CHIARO Stl. (Type A.) Large white with lemon-yellow pointed sepals. Innermost petals wide opening, glistening white with crimped tips. A very beautiful flower and a good keeper. \$2.00.

SERENIDAD Stl. Black-red bud opening to a creamy-white flower with few beet-red sepals. All sepals and petals needle-pointed. Wide open. Refined appearance. 75c.

THEME SONG Bhm. (Type D.) Lively touches of yellow on a large cream-white flower. \$1.00.

TOWHEAD Stl. Small to medium yellow and white with some rose-bronze outermost sepals. Slightly frilled, open cup. \$1.00.

WHITE FLAME Bhm. Broad, wavy, crimped, rose-tan sepals and pure white petals, wide open. \$1.50.

WINTER MOON Sh. (Type A.) Not large but excellent form with interesting delft rose tube and yellow sepals. Clean light green plant growth. \$1.00.

YELLOW VIOLET Kado. (Type C.) Outermost sepals extremely yellow. Inner petals white. Fine in bud with prominent extended scales. Limited. \$1.50.

YREKA Bhm. (Y-reka) (Type D.) Numerous sepals and petals all heavy with yellow or rich cream. \$2.00.

75 cents each, 5 for \$3.00, assorted

Albatross	Chiaro di Luna	Star Dust
Alice Roosevelt	First Place	Vela
Anna Rettig	Ice Cap	Vesper
Artesia	Natalie	White Beahm
Blanche	Paul de Longpre	White Swan
Blanco	Shasta	William Rohbock

50 cents each, 5 for \$2.00, assorted

Anguliger	Guatemalensis	Otto Schmidt
Belgica	Kinchinunga	Oxypetalum
Cooperii	Londonii	Snow-cap
Crenatum	Magnolia	Stenopetalum
Easter Morn	Moonrise	Strictum
Eden	Mount Hood	Young Nun
Frau Poldi	Mount Rainier	
Cvetnic	Oriole	

Unrooted Cuttings 75 cents each, 10 assorted for \$5.00

Whites and Creams, etc., good varieties hitherto variously priced but now available as unrooted cuttings only, cut from our display plants when not in new growth: Albus Superbissimus, Beulah, Castnori, Charles Larkin, Diamond Lil, Dove of Peace, Elfe, Eskimo, Estrellita, Ferdinand Schmoll, Francisco, Frau von Schiller, Gardenia, Ghost, Gretchen Steudte, Icicle, Ivory, Larseni, Luna, Mt. Lofty, Phoebe, Phosphor, Pond Lily, Pres. F. D. Roosevelt, Seven-up, Star of Bethlehem, Triumph de Guebvillers, Westfalen, Wrayii.



DEUTSCHE KAISERIN (EMPRESS)

GROUP II

LIGHTEST **SOFT PINK, ROSE PINK, SALMON PINK AND LAVENDER PINK**; VARIOUSLY COMBINED AND SOMETIMES ONE-TONED.

ADONITA Bhm. (Type A.) Light carmine-rose. Lasting qualities. Limited. \$1.50.

BONNIE BRAE Stl. Light lavender pink flowers in two shades deepening with age. Petals wide open, very crimp. Sepals very broad, reflexed. \$2.00.

CINDY Stl. Charming lavender pink in three shades, sepals slightly darker and reflexed. Narrow well parted forward petals. \$1.00.

CLARABELLA Stl. Crisp flower. Medium sized even shade of rose pink. (Type C.) Full petaled. \$1.00.

ENSEMBLE Stl. (Type C.) Flesh pink darkening to a carnation pink. Rose eye with a hint of cerise. Easy to flower. \$1.00.

FAIRY QUEEN Stl. (Type C.) One of the most delicate pinks. Nearly white center deepening at petal tips. A rare combination. Limited. \$2.00.

HAVILAND Stl. (Type C.) Delicate Porcelain rose (medium size). Late bloomer and good keeper. \$1.50.

KAISERIN IMPORT. One-toned pale pink flower, larger than the Deutsche Kaiserin. Plant growth is broad and not subject to leaf spot. \$1.00.

- LADY GODIVA** Stl. Numerous tannish-rose sepals and petals with vivid star-shaped eye of cerise. \$1.00.
- MISS MUFFET** Bhm. 1950. Kaiserin-Hans Rehm hybrid. Small to medium, good corsage and excellent foliage. Nearly one-toned light rose pink, very narrow sepals and petals. \$1.50.
- NANNETTE** Stl. Broad, short, brownish-rose sepals. Petals are a very delicate pink flecked with lavender. (Type C.) \$1.00.
- NILMAH** Stl. (Type C.) First morning nearly white deepening to baby pink. Center eye of light cerise. Overlapping petals form good cup. \$1.00.
- NORMANDIE** Stl. (Type D.) Giant of suffused Rhodamine pink. Broad, blunt petals. \$1.50.
- PASTELLO** Stl. (Type D.) Greenish-pink sepals with inner petals delicate shell-pink to almost white center. Exquisite. Just released. Limited. \$1.50.
- ROSE OF MONTEREY** Stl. Graceful airy flower, large light pink, good texture and one-toned. \$1.00.
- SEPTEMBER MORN** Stl. (Type C.) Shrimp pink with bright pencil edge of fuchsine pink on numerous inner petals. Definite cup-shape. Medium size. 75c.
- SPRINGTIME** Stl. (Type C.) Soft pink with flecks of lavender but no eye. Broad petals. Scented. \$1.00.
- SWEET BRIAR** Stl. (Type C.) Loose open cup medium size flower. Broad inner petals of delicate pink. Brownish pink sepals. Wild rose scent. \$1.00.
- WALKURE** Kn. 315. Various shades of Camellia Rose, sepals darker than petals. Ball-shaped flower. Varying sizes and lighter color of inner petals lend a distinct charm. \$1.00.
- WELCOME** Stl. (Type D.) Exquisite pale rose-pink overcast with delicate lavender, slightly deeper eye, light ruffled edge. Marvelously scented. \$1.00.

75 cents each, 5 for \$3.00 assorted

Ballerina	Elektra	Pink Gloria
Bella Donna	Fairyland	Rosabella
Contentment	Fortuna	September Morn

50 cents each, 5 for \$2.00 assorted

Adonis	Couranti	Marie
Alpha	Deliciosa	van Hoorde
Antwerpia	Deutsche Kaiserin	Martha Knebel
Argus	Florence	Padre
Bohemienne	Houghton	Roseus Superbus
Charm	Lady Irene	

Unrooted Cuttings 75 cents each; 10 assorted for \$5.00

Light Pinks, etc., good varieties hitherto variously priced, but now available as unrooted cuttings only, cut from our display plants when not in new growth: Anna Brunnow, Bella, Celeste, Edmund Odie, Hebe, Illeana, Judy, La France, Lilacinus, Mme. Sallier, Sarah Courant, Venus.

GROUP III

DEEPER PINKS, LAVENDER-PINK, ROSE-PINK; OFTEN WITH OTHER CONTRASTING COLORS.

ALICE SERGEANT CP. Wreath of darker sepals place this in Group 3 though trumpet shaped petals of pale salmony pink would indicate Group II. \$1.50.

ALLUROSA Bhm. Dark pink with rose eye, petals broad, wide opening. Always admired. \$1.50.

CARNATION Stl. A lovely shade of carnation-pink, rose eye. Broad overlapping sepals and petals. Erect heavy grower. \$1.50.

CELESTINE Stl. (Type B.) Lilac pink with a deeper rose edge; not a band. \$1.00.

DUCHESS OF WINDSOR Bhm. (Type A.) Well rounded heavy thick petals. Even tone of orchid-pink with rose eye. Broad orange-pink sepals. 75c.

DUKE OF WINDSOR Bhm. (Type D.) Very soft tones of Camellia Rose with deeper center stripe. Outer petals narrow, curling, brownish-pink. \$2.00.

GRACE MARIE Bhm. 1949. Full petaled, delicate true pink, numerous sepals of a distinctly different color. Flower very large, fragrant, style and size of Cooperii of which it is a hybrid. \$3.00.

HOLLYDALE Bhm. 1951. One-toned rose-pink, extremely firm textured, truncated overlapping sepals and petals giving it a stemmed glass appearance. \$1.50.

LADY EDNA Stl. (Type A.) Giant wide open flower with broad well rounded petals. Slight spoon at petal tips. One-toned lilac pink. \$1.00.

LILA Stl. Very crimply broad blunt petals hooked at tips. Petals have measured up to two inches wide. Deep lilac pink with no eye. Crepe texture. 75c.

MAXWELLTON Bhm. 1950. Rich coral color with white at base of petals. Many well parted petals and sepals. Medium sized. \$1.00.

MERMAID Stl. Giant one-toned old rose, wide opening, numerous inner petals of various width and lengths. Petals very crinkled, light at base. \$1.00.

MISS MARGARET TRUMAN Bhm. Petals apricot pink with medium eye. Open trumpet. Sepals reflexed, deeper petal color. Excellent carriage. \$2.00.

MRS. BESS TRUMAN Bhm. Good deep Phlox-pink deepening to Fuchsine-pink. Heavy textured, open trumpet, broad, rounded sepals and petals. \$1.50.

ORCHID BEAUTY (Type A). Beautiful orchid-pink, deep tan-pink sepals, wide open, not flat. 75c.

PANDORA Stl. Sepals extremely broad dark rose-pink. Petals broad blunt, medium lavender pink with slight cerise edge. \$1.50.

PARADISE QUEEN Bhm. One-toned fuchsine-pink flower overlaid with electric blue. Sepals broad darker color. Cross of Cooperii and Paradise. \$1.50.

PRINCESS PAT Bhm. Full petaled coral pink, medium sized, with good texture. 75c.

ROSALIE Stl. (Type C.) One-toned deep rose, broad well rounded petals, firm texture. \$1.00.

ROSEA STELLATA Stl. (Type A.) Broad spooned lavender-rose petals with cerise edge. White dots at base of petals lend additional charm—indeed a large, magnificent flower. \$1.50.

ROSE BLUSH Stl. (Type C.) Old-rose with a bluish cast and tan center stripe. Broad blunt sepals and petals. No eye. Difficult to describe but fine. \$1.00.

ROSE MARIE ROSETTA Bhm. (Type C.) Long pointed buds similar to the rose of the same name. Small flower often three angled. Limited. \$1.00.

ROSE TOURNEY Bhm. Camellia-rose pink with white petal base. Sepals narrow, flare all angles. Petals numerous, wide open, loose. \$1.50.

SHOW GIRL Bhm. 1951. Large showy one-toned pink. Broad petals with ruffled tips. Good texture. \$1.50.

STARLLA LEE Bhm. Typical large Kaiserin, crushed raspberry in color. \$1.50.

75 cents each, 5 for \$3.00 assorted

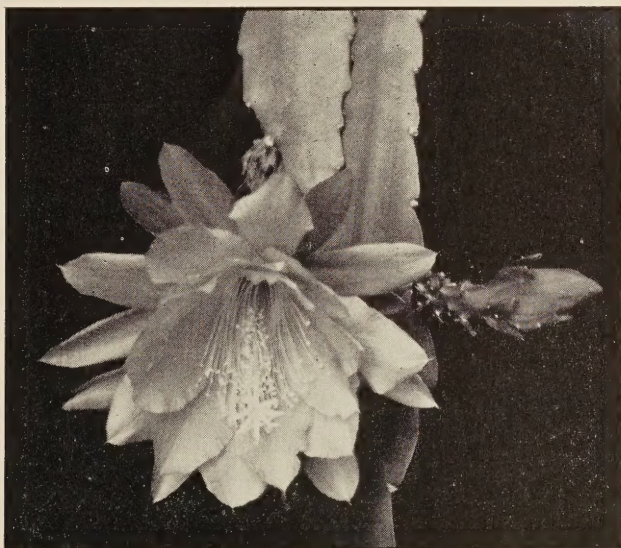
Bagdad	Fritz Reichenbach	Petrita
Day in Spring	Hohenzollern	Ruth Kilbourne
Frau Maria Ruhl	Joyce	

50 cents each, 5 for \$2.00 assorted

Agatha	Majesty	Pink Pearl
Corinne	Mauvette	Rosetta
Euphrosine	Mexicanus	Scheherazade
Lohengrin	Pink Nymph	

Unrooted Cuttings 75 cents each, 10 assorted for \$5.00

Deeper Pinks, etc., good varieties hitherto variously priced but now available as unrooted cuttings only, cut from our display plants when not in new growth: Elata, Elysian, Eric Matthes, Eros, Pandemonium, Pier-soni, Queen's Pearls, Regent, Rose Perfection, Salmon Fonce, Wanda.



PINK NYMPH

GROUP IV

ORANGE, AMBER, COPPER AND AUTUMN SHADES;
OFTEN WITH VIOLET OR PURPLE IN CENTER OR
ALONG EDGES.

- CALIFORNIA BEAUTY** Kado. A giant many petaled burnt-orange flower with large lustrous purple eye. Some red veining. Sepals recurved; scales deep purple. Limited. \$3.00.
- CASSANDRA** TMM. Wide open, buff orange with a deep orange eye. Sepals and petals well parted and narrow. A dainty flower. \$1.00.
- CLEONA** Bhm. (Type D.) Numerous petaled. A Montezuma Sun Goddess cross. One tone of dark orange with a delicate eye of violet. Late flower. \$1.50.
- COUNTESS ESTELLE DOHENY** Kado. (Type D.) Many narrow curling sepals, bronzy-red. Narrow petals, flaring trumpet. Glowing violet eye. \$1.50.
- CUP OF GOLD** Stl. Golden orange sepals and petals with light rose edge turning to near lavender at throat. Large flower, mid-season. \$1.00.
- DENIS KUCERA** Cldg. Huge flower opening rather flat. Orange outer petals; inner petals with deep border of bright violet. \$1.50.
- FLAMENCO** Cldg. Large flower with pointed orange petals heavily edged in violet. Opens very flat. (Type E.) The short ovary and tube and wide spreading sepals make this distinctive. \$1.00.
- GOLDEN EMBLEM** Bhm. (Type D.) Very late. Many golden petals and large deep lavender eye. Stamens fluffy and form a graceful circle of lighter lavender. A Montezuma cross. Large. \$1.50.
- GOLDEN GLEAM** Stl. (Type D.) Bright orange, hint of cerise at petal base. Graceful. \$1.00.
- KADOLIA** Bhm. Orchid edge on copper-colored petals. Sepals old rose over orange. Bronzy growth. \$1.00.
- LEONOTIS** Bhm. (Type C.) Many extremely narrow sepals and petals; nearly one-toned burnt orange with cerise edge at base of petals. \$1.00.
- LODESTAR** Bhm. (Type B.) Very large glistening orange petals in five ranks, with outward curving tips—innermost petals edged in fuchsia. \$2.00.
- MISS BEVERLY** Bhm. Broad blunt orange petals penciled in fuchsia. Small flower. Rosetta cross. \$1.50.
- MISS SANTA MONICA** Kado. (Type C.) Burnt orange entire. Larger than Rosetta but of similar style. Plant growth deep green with red edge. \$1.00.
- NELLIE CANTWELL** Kado. (Type C.) Coppery orange sepals and petals with slight edge of fuchsia. Petals folded back to appear pointed. \$1.00.
- ORANGE NYMPH** Bhm. Medium flower, wide petals—ruffled edge. An orange-toned Pink Nymph. Very fine. \$1.50.
- PARACUTIN** Bhm. Very full petaled deep orange, inner petals shaded with roseglow. \$1.50.

- PIRATE GOLD** Stl. Long and narrow tan colored sepals frame the darker shorter cerise edged inner petals. Erect, tall plant. \$1.00.
- SAN BERNARDINO** Stl. Very large broad-petaled orange with edges of rose-opal. Petals wide-spreading pointed with slight ruffle. Late. \$1.00.
- SEQUOIA** Stl. Giant orange flower with deep bright orange sepals and golden-orange petals with bright lavender edge. About 35 sepals and petals. \$1.50.
- SOUTHLAND** Kado. (Type D.) Large true orange overcast with pink. Often forty petals. Bright violet eye. Outstanding. Medium to late. \$2.00.
- SUSQUEHANNA** Bhm. Very large glistening multi-colored flower basically orange. Petals edged in Rhodamine Purple. Rolled, spikey shaped sepals deeper colored than petals. \$2.00.
- TANGIERS** Bhm. 1951. Very fine. Sepals waxy yellow background with orange-red overtones. Petals light tangerine orange. Cup-shaped petals, rounded to slight spoon, no ruffle. \$2.00.
- TITIAN** Stl. (Type E.) Long narrow pointed petals—wheel effect. One tone, clear dark orange. \$1.00.
- TOPAZ** TMM. Very broad sepals and petals of amber with deeper center. Cup and saucer. \$2.00.
- TOPSY-TURVY** Stl. (Type E.) Few narrow petals which form a wheel. Orange center stripe—wide lavender edge. Fluffy stamens. Large. \$1.00.
- TROCADERO** Bhm. Giant sparkling deep burnt orange with magenta tinge. Many firm, broad sepals and petals. \$1.50.
- TULULOSA** Bhm. 1950. A cross of Tulip and Selenicereus spinulosus. A night blooming flower—buff orange color with soft lavender eye. Many narrow sepals and petals, pin-wheel opening. (Type E.) \$1.00.

75 cents each, 5 for \$3.00 assorted

Aurore Boreale	Fire God	R. W. Poindexter
Bruin	Frau Dr. Ziegler	Stern von Erlau
Caprice	Karl Gielsdorf	Sunset
Dr. von Roeder	Mme. Queen	Tiffany
Erlauer Kind	Romance	Wurtemberg

50 cents each, 5 for \$2.00 assorted

Amber Queen	Desert Sunrise	Moncherie
Betty Lou	Ernst Seyderhelm	Montezuma
Buff Beauty	Fiesta	Scintilla
Camillo	Flamingo	Sunburst
Schneider	Flor del Sol	Sun Goddess
Curt Backeberg	Gloria	Tr. des Anthieux
Dante	Margaret Ward	Valencia

Unrooted Cuttings 75 cents each; 10 assorted for \$5.00

Orange or Autumn Colors, etc., good varieties hitherto variously priced but now available as unrooted cuttings only, cut from our display plants when not in new growth: Artista, Autumn, Bliss, Brahma, Lackneri, Oberst P. M. Kuhnrich, Pride of Ventura, Speciosa, Sun Beam, Sunrise.



LILAC TIME

GROUP V

ONE-TONED REDS, VERMILION, SCARLET, MAROON

AMULET Bhm. (Type C.) One of the daintiest of the small Kaiserin types—a light all over red. \$1.50.

BANNER RED Stl. (Type B.) Bright dark red with frilled petals. Very wide opening and large. A good keeper. Lavender stigma lobes. 75c.

BLEEDING HEART Stl. (Type B.) Medium sized—many smooth narrow petals. Light signal red, with slightly darker center stripe. Excellent keeper. \$1.00.

EREBELLA Stl. A hybrid of Bella and Erebus. Clear tomato color with lighter veinings down center of heavy petals. 75c.

EREBUS (European variety). (Type B.) Very large and late. A cinnabar red. Well liked. 50c.

IMP RWP. Medium forward trumpet flower of an even currant red. Plant bushy and strong. 75c.

JERICO Bhm. Late flowering, clear red. Long narrow outer sepals gracefully frame the inner cup. Medium to large. Good keeping qualities. \$1.00.

JULES SCHLUMBERGER. Large flower. Narrow pointed blood-red sepals break away and turn back early. Petals forward narrow, smooth, very rich bluish red. Flower stands alone in color and style. 50c.

KISMET Bhm. Good sized tomato-red Empress—typical basket plant. \$1.00.

OTTO SIEPKE Kn. 220. One-toned true red, compact, trumpet and saucer-shaped. Medium sized. \$1.00.

RUGOSA TMM. A rich vermilion red with numerous very broad sepals and petals, sometimes ruffled. A king among the reds. 75c.

TULIP Stl. Very splendid though not costly. Extremely broad sepals and petals of intense dark red are further enhanced by the bright red pistil and gorgeous deep purple stigma lobes. A Tulip-shape. 50c.

75 cents each, 5 for \$3.00 assorted

Cardinal	El Indio	Poinsettia
Dardanella	June Kelly	Urahne (Kn.)

50 cents each, 5 for \$2.00 assorted

Ackermanni	Gen. Garibaldi	Scarlet Giant
hybrid	Janet	Vive Rouge
Flambeau	Red Kaiserin	Viviana

Unrooted Cuttings 75 cents each, 10 assorted for \$5.00

One-Toned Reds, good varieties hitherto variously priced but now available as unrooted cuttings only, cut from our display plants when not in new growth: Arabian Night, Bahia, Brilliant, Carmen, El Rey, Francois Verhaert, Red Letter.



STRICTUM



THORINNE

GROUP VI

REDS OF ALL SORTS BUT COMBINED WITH VARIOUS OTHER COLORS.

ALTA SCOTT (Type B). Deep red center line shading through vibrant purple to light edge. A very refreshing flower. \$1.00.

ARISTOCRAT TMM. Rich deep red shading lighter towards center, touch of violet on wavy edges. 75c.

ATLAS Stl. Large dark red with long narrow sepals and petals. Wide opening showing a suffused magenta center. \$1.00.

BANDANA Stl. (Type B.) Wide open deep currant red overcast with vibrant lilac blue. \$1.00.

CABOCHON Cldg. A double decker in violet with cherry sepals. As many as 50 narrow sepals and petals. Late season. \$1.00.

CARTWHEEL Stl. (Type E.) Narrow pointed petals. Shiny red center stripe with strong lavender edge. Erect long orange pistil. Very flat open. \$1.00.

CATTLEYA Kn. 305. (Type B.) Entrancing red-purple with glossy finish. Medium flower. 75c.

CEKA Kn. 274. (Type D.) Many narrow deep red sepals. Petals red-lined blended with deep fuchsia. Late, good keeper. 75c.

EL MONTE Stl. (Type D.) Loose ball-shaped. Dark orange-red with a purple edge shading to white. Petals blunt with deep spoon. Stunning. \$1.00.

FRIEDRICH WERNER BEUL Kn. 230. (Type B.) Beautiful large wheel-shaped flower. Dark carmine sepals. Lavender to white edge all around petals. 75c.

- FRUHLING** (Spring) Kn. 339. Cross of *Phyllocactus* and *Chia. Nelsonii*. 13 sepals and petals, red with fuchsia-purple edge. Chiapas type but twice as large. \$1.00.
- GERMANIA** Kn. 42. (Type A.) Many over-lapping dark red petals edged in purple—orange middle stripe. Heavy textured and crimp. 75c.
- GYPSY GIRL** RWP. Flame-colored outer petals, distinct tan cast. Inner petals bronzy purple, some violet shading. A vivid and dusky combination. 75c.
- HEART'S DESIRE** Bhm. 1950. Long narrow sepals with shorter broad inner petals. Scarlet red with slight purple edge. Heavy ruffle at petal tips. Sepals and petals well parted. Short ovary and tube. \$1.50.
- INFERNO** Stl. Lacquered. Dark burnt orange with center petal edges shaded with magenta. Heavy textured. Buds are almost black. \$2.00.
- KATRINKA** Bhm. 1946. Very dark blood-red with purple overtones. Heavy firm textured. Small flower, excellent keeper. \$1.00.
- MIKADO** Stl. Large flower broad blood-red sepals and petals bordered in Roseine Purple. Open cup, some ruffle. \$1.00.
- MISS NANCY BELL** Bhm. Numerous petaled small dark red flower of firm texture with purple overcast. Very fine. A Kaiserin hybrid. \$1.50.
- MOJAVE** Stl. Dark blood-red bud opening to a large flower with broad sepals and petals. Inner petals ruffled, orange-red center stripe bordered with wide band of lavender. \$1.50.
- PAULA KNEBEL** Kn. 2. Dark amaranth red outer petals surrounded with violet-carmine inner petals with lighter edges. 75c.
- PEGASUS** Cldg. Giant flower with very broad sepals and petals, red center stripe surrounded by purple, lightening towards edge. Texture smooth and silky. Very outstanding. \$2.00.
- PHYLLANTHOIDES GRANDIFLORA** (Type B). Very large. Blended orange-red, purple and violet. 50c.
- PROFUSION** Stl. Medium-large, light scarlet red. Deep eye or glow of magenta. Long season. 75c.
- SCOTT E. HASELTON** Kn. 345. Not large but excellent in all ways. Cherry red with inner petals blending to a magenta edge. \$1.00.
- SEÑORITA** Stl. Very large and broad blood-red inner petals partly bordered in purple, slightest frill. Sepals petal-colored. \$1.50.
- SLEEPY HOLLOW** Stl. (Type C.) Giant narrow-petaled currant-red. Prominent dark purple border clear to tips. Very wide open though not flat. \$1.50.
- TARANTULA** Stl. Unusual long narrow rolled spiky sepals. Center petals much shorter, flaring bell. Orange-red center stripe bordered with cardinal red lavender-purple on inner petals. \$2.00.
- THORINNE** TMM. Very large full petaled wide open funnel-shaped, red outer with fuchsine purple petals lightening towards the edge. Very late. \$2.00.

THUNDER CLOUD RWP. Darkest of reds giving impression of purple. Broad center petals. \$1.00.

TREASURE CHEST Stl. (Type B.) Very narrow extremely pointed sepals and petals. Deep Orient Red base with prominent dark purple border. \$1.00.

75 cents each, 5 for \$3.00 assorted

Allegro	Franz Schubert	Neon
Beautie Wegener	Frau Liberta	Prince Charming
Kn. 53F ²	Knebel Kn. 60	Purple Delight
Betsy Ross	Hofrat Bouche	Serenade
Blaue Flamme	Lady Serner	Tipperary
Dark-eyed Susan	Luminosa	Violetta
Fasan	Lustrosa	
Firefly	Mona Lisa	

50 cents each, 5 for \$2.00 assorted

Conway Giant	Jenkinsonii	Marseillaise
Fried. Boedeker	Kermesinus	Mons. Reviere
Hans Rehm	Magnus	Niobe
Heliocereus	Lange Beauty	Orion
speciosus	Loyola	Peacocki
Hermosissimus	Lucifer	Wm. de Laet
Imperator	Lydia	(Mme.)

Unrooted Cuttings 75 cents each; 10 assorted for \$5.00

Reds combined with other colors, etc., good varieties hitherto variously priced but now available as unrooted cuttings only, cut from our display plants when not in new growth: Belgian Pfau, Dr. Houghton, Etoile de Contiche, Francheski, Gamut, Garnet, Gloriole, Hermosus, Jolibois, Livingston, Nomad, Purple Flame, Repertoire, Siegfried, Walter Haage Jr.



JENKINSONII



CALIFORNIA BEAUTY

GROUP VII

SOMETIMES COLORS ARE BLENDED IN SUCH A WAY AS TO MAKE DESCRIPTION AND CLASSIFICATION DIFFICULT. THESE WE ARE GROUPING HERE.

APOLLO Stl. Very large extremely broad sepals and petals. Burnt-orange with darker reddish tips; inner petals edged with lilac. \$2.00.

AZTEC Stl. (Formerly Apache) (Type C.) Multi-colored flower of orange, purple and red. Narrow pointed petals of assorted lengths having a deep band of purple. 1.50.

DAWN GLOW Kado. (Type B.) Coloration of suffused old rose exactly like Latona. Small wide open flower, few petals. Heavy bloomer. \$1.00.

ENCHANTRESS RWP. Marvelous burnt-orange-apricot of unusual grace and charm. \$1.00.

FEDALA Bhm. (Type B.) Well-rounded broad sepals of deep orange-red. Petals very wide, smooth, broad, heavy texture. Slight trace of lilac at base. \$1.00.

HAWAII Stl. (Type C.) Pointed buff-orange sepals with many light buff-orange petals having a darker stripe and orange eye overlaid with rose. \$1.50.

HERO Stl. (Type F.) An outstanding introduction. Classed with Pride of Paloma. Limited. \$2.00.

INDIAN SUMMER Stl. (Type D.) Curled, troughed sepals. Deep orange over red petals with cerise eye. Open cup. Very late bloomer. Exquisite. \$2.00.

IRISH FIREFLAME Bhm. (Type C.) Flame-colored red, straw-toned center stripe, hint of purple. Smooth, firm, narrow sepals and petals. Limited. \$1.50.

- JULIET** Stl. (Type A.) Pointed petals with buff center stripe and light lavender to white edge. \$1.50.
- KATHIE** Bhm. 1950. Pinkish orange sepals. Petals with pinkish orange center stripe edged in lavender. Very innermost petals banded and suffused with lavender. \$1.50.
- LOVE AFFAIR** Cldg. Free flowering, light persimmon lightly margined in violet, narrow petals. \$1.00.
- MELROSE** TMM. Slender tan sepals; broad beige-rose petals with lavender to silver edge. \$1.00.
- MERRY WIDOW** Stl. (Type B.) Flesh-tan outer petals. Rosy-tan inner petals overlaid with brilliant cerise lilac. Symmetrical flower, circle of stamens. \$2.00.
- NAVAJO** Stl. (Type B.) Broad blunt dark orange sepals with much shorter inner petals completely bordered in purple. \$2.00.
- PERLEBERG** Bhm. Very difficult to describe. The many narrow sepals and petals have tan-pink tips becoming lavender in the center, fading to almost white throat. \$1.50.
- PRIDE OF PALOMA** Bhm. (Type F.) Must be seen to be appreciated. Unusual color and shape. Azalea-pink over Chinese-coral with a petal edge of Phlox pink. Limited. \$2.00.
- RICHARD DIENER** TMM. Crepy petals, deep apricot edge, cerise ring in center. Sepals orange with a tinge of violet. \$1.00.
- ROMANY** Stl. (Type D.) Dusky rose pink with buff; large lavender-rose eye. \$1.50.
- ROMEO** Stl. (Type A.) Pointed petals of dark rose to light lavender edge. Self-colored stamens. \$1.50.
- ROYAL ROBE** Cldg. Extremely large, very few broad sepals and petals, heavily ruffled or crimped. Sepals cherry-purple, petals lilac over pink with definite white star eye. \$2.00.
- ROYAL ROSE** TMM. Rose-buff with a base of deep lilac blending to a silvery edge. Broad petals, slender narrow sepals. Unusual coloring. \$1.00.
- SAMITE** TMM. Extra fine. Coral center stripe shading to deeper coral on edges. Opens flat, full broad petals, wavy edges; long slender back petals are deep coral. All petals curve gracefully. 75c.
- TAHOE** Stl. Outstanding in shape and color, inner petals numerous and quite short in shades of Roseine Purple; outer petals deep old rose. \$1.50.

75 cents each, 5 for \$3.00 assorted

Amour	Johanna	Sachsenland
Baroness Marie	Attenhofer	Splendor
Louise	Nightingale	Sylviarosa
Nellie	Pfau (Call.)	

50 cents each, 5 for \$2.00 assorted

Carmel	Inner Glow	Mimi
Cleopatra	Latona	Sacuntala
Frau Hanne Lohse	Loebneri (Tula)	Symphony

GROUP VIII

PURPLES AND ORCHIDS—ALL TONES FROM
LIGHT TO DARK.

ANTON GUNTHER Kn. 232. (Type C.) Several shades of purple—a color designated as carmine by Knebel. Very lovely. \$1.50.

BAMBI TMM. (Type D.) Nearly all purple large Deutsche Kaiserin, exquisitely formed. \$1.00.

BIZERTE Cldg. Large deep purple, edged lighter. Huge narrow petaled flower with lavender white inner petals and violet outer petals. Sepals bronze-violet. Very spectacular. \$2.00.

BUENOS NOCHES Stl. Graceful flower in rich shades of Rhodamine-Purple. Limited. \$1.50.

CONCORD Stl. Very few broad sepals and petals, overall Concord grape-color, fading to a light edge. Limited. \$1.50.

DR. WERDERMANN Kn. 9. A strong bold flower, all petals forward but well open, a rich Roseine-purple with an orange center stripe and a light orchid edge. \$1.00.

ELKHART Bhm. Rich plum with light orchid edge. Wide open cup. Broad blunt sepals and petals. Very fine. \$2.00.

FRAU MARTHA SIEPKE Kn. 201. (Type C.) Even toned Roseine-Purple. Limited. \$1.00.

GERTRUDE W. BEAHM Kn. Phyllocereus 23. (Type B.) Wide ruffled inner petals Rhodamine-Purple intensified by richly colored pistil and stamens. \$1.50.

HARMONY Stl. (Type C.) Exquisite orchid colorings which deepen with age to one tone. Tapering pointed petals standing well apart. Jewel-like effect. Water lily shape. Really distinct. \$2.00.



GERTRUDE W. BEAHM

- JOSEPH DE LAET** (Type C.) The old favorite "Tri-toned Orchid." Dark orchid sepals blending to white petals. 50c.
- LILACTIME** TMM. Fascinating slender buds with extremely long needle tips. One-toned, blue-lilac flower delicately ruffled. Extremely late. \$1.00.
- MINUET** Stl. (Type D.) Very narrow sepals and petals forming a graceful airy flower of varying tones of Roseine-Purple. Limited. 2.00.
- ORCHID SUPREME** Stl. (Type A.) Extremely wide crimped blunt petals. Shading from deep orchid to very light center. Large. \$1.00.
- PARADISE** Stl. Wide opening—almost flat. Recurved old rose sepals. Petals lavender-orchid with faintly darker center stripe. All delicate pastel tones, deepening with age. \$2.00.
- PRIDE OF BELL** (Type F.) Three shades of rose-orchid, transparent edges. Sepals recurved. Petals fold way back leaving stamens erect. Limited. \$2.00.
- QUEEN KATHERINE** Bhm. (Type D.) A nearly one-toned Roseine-Purple slightly deeper at throat. \$1.00.
- SHERMAN E. BEAHM** Kn. 227 (as re-named by Curt Knebel). (Type A.) Giant flower with dark carmine-colored outer petals and a wreath of lilac-carmine-red inner petals with lighter edge. \$1.50.
- TRANSVAAL** Stl. Released at last. Flesh-pink completely overlaid with Roseine-Purple deepening at throat. Flat open, long slender smooth pointed sepals and petals. Limited. \$2.00.
- UNCLE SAM** Stl. Distinct striped effect. Brownish orange through purple to orchid-white edge. Broad inner petals; long narrow striped sepals. Very wide open. \$2.00.
- WHIRLAWAY** Bhm. Airy flower with a trumpet of ruffled petals in three shades of orchid. Narrow sepals gracefully curl back. This flower has the colorations of Joseph de Laet but the style of Jules Schlumberger. \$2.00.
- WONDERLAND** Stl. (Type D.) White center blending towards deep colored Rhodamine-Purple tips. Extraordinary. Very limited. \$3.00.

75 cents each, 5 for \$3.00 assorted

Augusta von	Frau H. M.	Jacques Courant
Szombathy	Wegener	Jorg Siepke
Eleonora	Frau Stanka	Prof. Ebert
Prochaska	Stozier	Triumph de
		Entwerd

Collections of 5 for \$2.00 or 5 for \$3.00. May be mixed from the various groups.

RECOMMENDATIONS

No doubt many, many names might be added to the following lists, however, we feel that in making a good choice these names are sufficient for those not too familiar with Epiphyllums. Priced elsewhere, see index.

FOR BASKETS: Ballerina, Bambi, Cartwheel, Dardanella, Deutsche Kaiserin, Joyce, Kaiserin Import, Miss Muffet, Miss Nancy Bell, Red Kaiserin, Rosetta, Star Dust, Starlla Lee, Treasure Chest, Whirlaway, Wm. de Laet.

FOR PEDESTALS: Ackermannii hybrid, Amber Queen, CeKa, Conway Giant, Euphrosine, Flamingo, Freidrich Werner Beul, Latona, Lila, Marseillaise, Phyllanthoides Grandiflora, Prof. Ebert, Regina del Chiaro, Sun Goddess.

FOR ESPALLIER. All are rank growers when once established: Agatha, Argus, Bagdad, Carnation, Crenatum, Duchess of Windsor, Fiesta, Frau Poldi Cvetnic, Harmony, Hermosissimus, Lydia, Mauvette, Mimi, Miss Santa Monica, Oxypetalum, Padre, Royal Robe, Stenopetalum, Welcome.

FOR LIMITED SPACE. Compact plants which will flower in small containers: Ballet Russe, Bambi, Deutsche Kaiserin, Eleonora Prochaska, Flambeau, Gaylee, June Kelly, Luminosa, Neon, Pseudorhipsalis macrantha; Scott E. Haselton, Sunburst, Tulip, Urahne.

FOR CORSAGE: Ackermannii hybrid, Albino, Amulet, Cassandra, Dardanella, Deutsche Kaiserin (Empress), Gay Senorita, June Kelly, Mimi, Paradise, Pride of Bell, Rosetta.

EARLY BLOOMING: Ackermannii hybrid, Agatha, Augusta von Szombathy, Gloria, Harmony, Hermosissimus, June Kelly, Latona, Mt. Hood, Nellie Cantwell, Otto Siepe, Thunder Cloud.

LATE BLOOMING: Amber Queen, Betty Lou, Buff Beauty, Cabochon, Cattleya, CeKa, Charles Larkin, Cooperii, Gertrude W. Beahm, Jenkinsonii, Jules Schlumberger, Lilactime, Montezuma, Pfau (Callender's), Thorinne, Valencia, Vela, Yellow Violet.

VARIETIES FOR A MODEST COLLECTION: Ackermannii hybrid, Agatha, Amber Queen, Argus, Augusta von Szombathy, CeKa, Celestine, Conway Giant, Dante, Deutsche Kaiserin, Eden, Flamingo, Gloria, Mauvette, Mexicanus, Moonrise, Padre, Peacocki, Phyllanthoides Grandiflora, Polar Bear, Rosetta, Rugosa, Samite, Sun Goddess, Thunder Cloud, Tulip.



LOHENGRIN

CULTURE OF EPIPHYLLUMS

Epiphyllums prefer partial shade, that is, conditions suitable for ordinary ferns or begonias but must not have excessive moisture at their roots. They can withstand cold a degree or two below freezing.

Remember their culture is simple but entirely distinct from that of the desert cacti. Lack of this knowledge may have caused many failures by those who tried to treat them as ordinary cactus.

A good **POTTING SOIL** formula is one-half well decomposed leafmold with the other half made up of equal parts of coarse gravel, garden loam and well rotted steer manure with a small amount of bone meal (about the equivalent of a teaspoonful for each four-inch pot). This can be made up and kept ready for use.

ROOTED CUTTINGS should be planted in **SLIGHTLY MOIST** potting soil. Withhold water for several days or a week whenever roots have been disturbed. This applies also after repotting.

Allow an inch or more room between the soil line and the top of the pot. This will permit the addition of a little fresh potting mixture or light fertilizer each year without disturbing the roots nor yet getting the pot too full to permit proper watering.

UNROOTED CUTTINGS should be planted to the depth of one inch or more in **SLIGHTLY** moist peat and sand, half and half. Keep in a shady place, if possible, in a moist atmosphere. Start light watering after the third week. The cuttings may remain for as long as a year in the peat and sand without injury. But in any case don't disturb for the first 6 months. They do not require excessive root feeding.

Avoid repotting while in bud.

Epiphyllum Hybrids (Phyllocactus) fill a definite need in all plant collections. Many make wonderful hanging baskets, others can be trained in an espalier effect while still others are best as simple pot plants. For recommendations see page 21.



MONTEZUMA

CULTURAL DONT'S

- DON'T sift potting soil for Epiphyllums—leave it so coarse it can never pack.
- DON'T wet an Epiphyllum with water until one week has elapsed after transplanting.
- DON'T allow your Epiphyllums to remain bone dry for weeks at a time. At least spray the foliage.
- DON'T allow them to stay soaking wet for weeks at a time.
- DON'T neglect to use rain water when available.
- DON'T force your plants with fertilizers too high in nitrogen. It tends to produce growth instead of flowers. Let the growth come naturally.
- DON'T imagine that a rank-growing luscious plant must produce superior flowers.
- DON'T use too large a container—Epiphyllums do not have as heavy a root system as most plants.
- DON'T try to discourage new growth in the fall—it is their normal growing season.
- DON'T worry about frost damage if temperature stays above 30 degrees except on species such as *E. oxypetalum* and *E. strictum*.
- DON'T disbud—the benefits obtained are not worth it.
- DON'T worry when some of the quarter-grown buds drop off—nature will permit only those buds to mature that the plant can support.
- DON'T believe that allowing the fruit to develop, in moderate quantity, will kill or damage your plant.
- DON'T think that soaking a plant which is shrivelling is correct—it may need rest in the cool with only slightest spraying for a few months. Soaking might cause root-rot and then more drastic treatment would be needed.
- DON'T allow aphid, scale or mealybug to sap the vitality of your buds and plants.
- DON'T forget to read the labels when using insecticides and fertilizers.
- DON'T neglect your Epiphyllums when not in bloom.
- DON'T forget to see that hanging baskets get sufficient water.
- DON'T remove more than 1/5 of the growth of an Epiphyllum plant at one time or 1/4 of the growth during the year.
- DON'T experiment until after you have raised Epiphyllums awhile.



MISS SANTA MONICA



RHIPSALIS PACHYPTERA

Rooted cuttings \$1.00 each. Limited supply.

ZYGOCACTUS

The term "Zygo" is from the Greek word meaning yoke. This genus is a native of Brazil. Most varieties branch well from the base, some becoming bushy with a woody trunk. Others arch outward with a distinct chain effect giving rise to the name of Link-leaf, yoke or Zygocactus. The links are obovate (egg-shaped with the narrow end downward) with horns on a flattened apex which gave rise to the terms Claw-cactus or Crabcactus.

The flowers are very beautiful and have a distinct shape from most other epiphytic cactus. Before opening the bud is pointed forward. On opening the uppermost petals are overlapped and tipped forward in a hood or roof effect with the stamens and anthers clinging to the top; the lower petals are spreading and bent back against the tube. In general, the effect is that of an upside-down flower. They may be found in a number of colors including so-called white (very, very faint glow of pink after first day). They are excellent as corsage material and when used are worn reversed. Flowers are borne at the apex of the stems and are solitary, rarely two or three. The flowers are zygomorphic, that is divisible into two symmetrical halves from one direction only.

Approximately 75 forms of Link-leaf cactus have been mentioned in publications during the past century (but not in detail). Apparently only a very few of these are species (wild forms) such as Zygocactus, Schlumbergera, etc., all of which are found in the Western Hemisphere; all others are variations—hybrids or sports. Many of these have now gone out of circulation; possibly some may still be found in private collections but with little or no data concerning their history.

We are checking all varieties that we can find. As fast as we secure sufficient propagation of a variety and its identity is established, we will release it to our customers. We have quite a number of varieties under observation at present but not all will prove sufficiently different in growth or flower to merit the consideration of the general public.

Culture is not difficult. A very porous soil that drains well and yet remains moist—NOT SODDEN—is best. The Zygo-cactus need an airy moist atmosphere for best results. Their normal food is derived from decayed leaves and bark accumulated in the crotches of the trees in which they have become established. In making an artificial duplication of this condition we use a **POTTING SOIL** rich in humus and leafmold. During the hottest months set the zygos aside in a cool place—water sparingly. Water oftener in the fall while buds are forming. As a special treat to these plants soak one pound of cottonseed meal in five gallons of water for 24 to 36 hours or longer. Strain well and use as a foliage spray. It need not be washed off as it is beneficial to both plant and soil. This may be used two or three times a year.

The Zygo-cactus is susceptible to scale and care should be taken to examine the undersides of the links regularly especially right at the joints. At the first sign of any infestation a mild oil spray should be used. Your dealer will recommend a suitable one. Spray only on cool or cloudy days; the plants may be hosed off after 24 hours; repeat in two weeks if necessary.

When you receive a rooted Zygo-cactus, it should be soaked in tepid water for an hour or so on arrival, to make the roots pliable before planting. When you receive an unrooted cutting remember roots form only at the joints so be sure there is an undamaged joint just below the soil line. If you want to experiment try vitamin B1 or one of the hormones.

Grafted Zygos are rather difficult to ship but sometimes it is impossible to obtain a plant on its own roots. If you have received a grafted one it is wise to use soil and other conditions suitable to the growth of the base or root-stock. No trellis is needed except for grafts on tall standards. These should be supported as their tops increase in size. A framework simulating an umbrella is often used.

AVAILABLE VARIETIES OF ZYGOCACTUS TRUNCATUS

BICOLOR (Thanksgiving). Tube is white with slight purple lines. Petal edges and tips deep rose. Flowers earliest of all—October to November. Rooted cuttings 50c.

SALMONEUM. Petals are one shade of salmon pink with very little white in the tube of flower. Flowers as late as January. Rooted cuttings 50c.

MME. FOURNIER. Plant growth broad with large hooks on the edge and at the apex. Flowers slightly larger than Salmoneum and deeper in color—more of a rose shade. Rooted cuttings 50c.

DELICATUM. Limited. Flower white with glow of pink on petal edges after the first day. Pistil—magenta. Plant leaves small and slender with well placed horns on apex. Small rooted cuttings \$1.00.

Other varieties of Zygo-cactus will be available from time to time.

CHRISTMAS CACTUS

The plant usually distributed under this term may flower as late as March or even in late summer. Its true identity is still in question. It does not have a zygomorphic flower. It has small regular flowers of fuchsine-pink which have a short tube and a 4 to 5-edged ovary with large scales. The flowers sometimes are slightly hooded the first day and the petals often open wide on the second day. Tips of plant joints blunt but with no noticeable claws. Plants 35c to \$1.50.

SCHLUMBERGERA

The Schlumbergera is very similar to the Zygocactus in plant growth and culture except that the flowers are symmetrical and have narrower petals on very short flower tube. Most of them appear at Easter time thus giving rise to the name Easter cactus. We can supply Schlumbergeras only as available.

SCHL. RUSSELLIANA. Sometimes known as Christmas Cactus—flowers as late as March. 35c to \$1.50.

SCHL. RUSSELLIANA var. MAKOYANUM. Larger links with 6 to 8 areoles along the edges; spines are wanting or are not readily visible at the apex. Flowers are a cardinal shade of red. Limited. Rooted cuttings 75s each.

SCHL. GAERTNERI. Flowers of bright crimson; there are some brown soft spines at the apex of the links. Limited. Rooted cuttings 75c each.

EPIPHYLLANTHUS OBTUSANGULUS

This is an interesting form of jointed or link-leaf cactus. A normal plant has the appearance of a very minute opuntia with zygomorphic flowers. This might make an interesting point at which to start hybridization. Our stock is limited. If interested write.

DISOCACTUS

EICHLAMII. Epiphytic plant with small slender tubular flowers of bright rosy magenta—not of easy culture. Limited. Small rooted cuttings \$1.00.

RHIPSALIS

Those interested in other forms of epiphytic plants should certainly acquire a few Rhipsalis. They make graceful, excellent baskets. Culture is the same as for Epiphyllums. Flowers are very small in most varieties and not highly colored though there are rich creams and orange flowered sorts. The flowers are small to minute, usually numerous and make a nice showing when in full bloom.

Plant growth may be fine thread-like as in Capilliformis and Cassutha or larger pencil-like branches of Neves-Armondii on to very broad wavy foliage such as Oblonga and Crispata which are similar in growth to epiphyllums. We have about 35 varieties from which we can supply unrooted cuttings at present at 50c each.

The following which are listed here in order from fine pencil-like to broad flat growth may be supplied as rooted cuttings at 50c each or 5 unrooted, our choice, \$2.00.

Cereuscula	Shaferi	Rhombea
Clavata	Teres	Elliptica
Capilliformis	Neves-Armondii	Oblonga
Cassutha	Houlletiana	Crispata
Virgata	Heteroclada	

PSEUDORHIPSALIS MACRANTHA

This lovely plant has flowers many times larger than most Rhipsalis, in fact, the few-petaled flowers are about the size of Chiapasias Nelsonii. Flowers are generally light yellow sometimes very deep yellow, blooming freely in the fall and winter. Plant growth resembles many of the Epiphyllums. It makes an excellent hanging basket or pot plant. Rooted cuttings \$1.00 each.

CHIAPASIA

CHIAPASIA NELSONII. A monotypic genus with lilac-pink flowers appearing on the lateral branches. The flowers are small though very attractive. It blooms very early in the spring. As a graceful basket plant it is greatly admired the year around. Rooted cuttings 50c. Strong young plants \$1.00.

The Chiapasias has been crossed with the Epiphyllum producing plants with small flowers of various sizes and colors. We are propagating Mr. Knebel's introductions.

NIGHT BLOOMING. (Unrooted cuttings 50 cents): Anguliger, Oxypetalum, Strictum, Hylocereus stenopterus, Hylocereus undatus, Hylo. Ocamponis, Selenicereus Macdonaldiae, Selenicereus spinulosus, Selenicereus Vagans; and others.

HAWORTHIAS

A group of small unique succulents from Africa, interesting as small pot plants variously priced from 35c to \$2.00 depending on size and variety. Write for list containing about 200 names.

HOYAS — (WAX PLANTS)

Very interesting vining house plants with glossy leaves and umbels of delicately scented small flowers, native of the Malay Peninsula and China.

HOYA CARNOSA—pale pink waxy flowers scented, leaves shining dark green.

HOYA VARIEGATA—same as above except leaves banded in yellow or pink.

HOYA (name questioned)—white or straw flowers larger than in carnosa, leaves lighter green thick, round or blunt.

HOYA KEYSII—flowers straw-white, pointed petals with a red base. Heavy glaucous felted leaves.

HOYA MOTOSKEI—from France, long-stalked umbels of waxy white flowers with red center. Globular, fleshy leaves.

HOYA SPECIES—said to be yellow flowers. Leaves not felted. All above are rooted cuttings. \$1.00 each postpaid.



PSEUDORHIPHALIS MACRANTHA

READ CAREFULLY BEFORE ORDERING

Prices quoted in this catalogue are for cuttings whether ROOTED or UNROOTED, postpaid.

CUTTINGS offered are of mature growth from six to ten inches long and are usually well rooted small plants. Unrooted cuttings sent only when rooted stock is not available or when so requested by customers.

MEDIUM PLANTS have one or more matured branches and are approximately THREE TIMES the price quoted for cuttings.

SPECIMEN PLANTS or (PLANTS IN BUD when available in the spring) are shipped in containers express collect \$3.00 and up according to size and variety.

MIXED EPIPHYLLUM SEEDS—taken from our best hand-pollinated varieties—instructions included, 25c a packet.

Sometimes plants are quite similar. In a few instances the identical plants carry different names in different localities. If you will give names of varieties in your collection we will endeavor to avoid duplicating them.

We endeavor to have all plants correctly named. In case of error we will not be responsible for more than the original purchase price of the item ordered.

We do not substitute, so please give us second choices in case we are out of items ordered.

We can ship C.O.D., however, C.O.D. charges are usually quite excessive so it would pay you to send remittance when ordering.

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In our gardens each plant carries its own identification number. Our new originations are registered with the EPIPHYLLUM SOCIETY OF AMERICA. The Society issues a mimeographed Bulletin several times a year to its members. This Bulletin is devoted to all phases of the epiphytic cactus and carries reports of the Society's meetings which are held in Los Angeles County. Membership is by invitation—dues are \$2.00 per year. If interested in joining please write us.

"THE EPIPHYLLUM HANDBOOK" by Scott E. Haselton—\$3.85 postpaid. Contains 231 pages and many illustrations.

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This index contains only a portion of the many varieties of Epiphyllums in our gardens. Please feel free to consult us if you are interested in a variety not listed here.

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